AMENDMENT TO CLAIMS:

9. (Currently Amended) A method for the pasteurisation of drinks, the method comprising:

heating a flow of volume of a drink product ~~heating phase in which a flow volume of a drink product is heated above a pasteurisation temperature~~ to a maximum temperature; and

immediately cooling the drink product after the maximum temperature has been reached, and ~~a cooling phase in which the heated drink product is cooled before being filled into a container, wherein the cooling phase is commenced immediately after a previously calculated maximum temperature has been reached in the heating phase,~~ and

wherein a maximum quantity of pasteurisation units (PU) to be applied for the pasteurisation of the drink product is computed, and then a temperature variation and length of ~~the~~ said heating ~~phase,~~ and a temperature variation and length of ~~the~~ said cooling ~~phase~~ are chosen, such that during pasteurisation, the number of pasteurisation units previously calculated corresponds to the total number of pasteurisation units actually applied during ~~the~~ said heating and said cooling-phases.

10. (Currently Amended) A method for the pasteurisation of drinks according to Claim 1~~9~~, wherein the pasteurisation unit is defined as:

$$PU = t_h * 1{,}393^{(\vartheta h - \vartheta 2)}$$

wherein t_h represents heat holding time, ϑh represents heat holding temperature, and $\vartheta 2$ represents pasteurisation temperature, respectively.

11. (Currently Amended) A method for the pasteurisation of drinks according to Claim ~~1~~9, wherein the time length of ~~the~~ said heating ~~phase~~ in a temperature range within which pasteurisation takes place is shorter than that of ~~the~~ said cooling ~~phase~~.

12. (Currently Amended) A method for the pasteurisation of drinks according to Claim ~~1~~9, wherein ~~in the~~ said heating ~~phase a stream of the~~ drink product ~~is heated~~ occurs in a recuperator by heat transfer from outflowing the product stream.

13. (Currently Amended) A method for the pasteurisation of drinks according to Claim ~~1~~9, ~~the~~ wherein said heating ~~phase~~ includes a first heating phase in which heating lasts until the temperature of the drink product reaches just above the pasteurisation temperature, and a second